TYPE: Basic

AWS A5.1 / ASME SFA5.1 E7018-1 H4R JIS Z3211 E4918 EN ISO 2560-A - E42 4 B 3 2 H5

Applications

S-7018.1H can be used for welding of high tensile steel, such as bridges, buildings, rolling stock and low temperature used for steel structure.

Characteristics on Usage

S-7018.1H is an iron powder low hydrogen type electrode. Its coating contains much iron powder, which increasing working efficiency. Its usability is good with direct current applications and very low hydrogen electrode. (HDM < 5 m Ø/100 q)

Notes on Usage

- ① Dry the electrodes at 350~400°C (662~752°F) for 60 minutes before use.
- (2) Keep the arc as short as possible, and avoid large width of weaving.
- ③ Adopt back step method or strike the arc on a small steel plate prepared for this particular purpose to prevent blow hole at the arc starting.

Welding Position Current AC or DC + 1G 2F 3G 4G (PA) (PB) (PF) (PE)

Typical Chemical Composition of All-Weld Metal (%)

С	Si	Mn	Р	S
0.06	0.25	1.35	0.014	0.005

Typical Mechanical Properties of All-Weld Metal

YS	TS	EL	Temp.	CVN-Impact Value
MPa(lbs/in²)	MPa(lbs/in²)	(%)	℃ (°F)	J (ft · lbs)
493 (71,500)	566 (82,100)	30.8	-45 (-49)	152 (112)

Approval	l Packing	
ABS, BV, DNV, GL, LR, CWB	Packet Carton	5 kg (11 lbs) 5 kg (11 lbs)×4:20kg(44 lbs)
	Vacuum Pack	
	Carton	5 kg (11 lbs) × 4 : 20kg (44 lbs)
	Vacuum Pack	1.5 kg (3.3 lbs)
	Carton	$1.5 \text{ kg} (3.3 \text{ lbs}) \times 10 : 15 \text{kg} (33 \text{ lbs})$

Sizes Available and Recommended Currents (Amp.)					
Size mm (in)	2.6 (3/32)	3.2 (1/8)	4.0 (5/32)	5.0 (3/16)	
Length mm(in)	350 (14)	400 (16)	450 (18)	450 (18)	
F	60~90	90~140	130~190	180~240	
V-up, OH	50~80	80~120	120~170	150~200	